Highway Number (ON) 5D: 025A _

Colorado Department of Transportation Structure Inspection and Inventory Report (English Units)

Mile Post (ON)11: 209.205 mi

dge Key: F-16-O	K	Inspection Date: 4/1	18/2011	Sufficiency Rating: 77.8	FO FO
Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B	
Frans Region 2T	02	Posting status 41:	Α	SI Date 93C:	
County Code 3:	031	Service on/un 42A/B:	6 2	Bridge Cost 94:	\$ 0
DENVER		Main Mat/Desgn 43A/B:	6 5	Roadway Cost 95:	\$ 0
Place Code 4:	20000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
DENVER		Main Spans Unit 45:	2	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	1	Horiz Clr 47:	27.0 ft	Border Bridge Number 99:	
evel of Service 5C:	7	Max Span 48:	154.2 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	311.1 ft	Parallel Structure 101:	N
eature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
BNSF RR R		Width Curb to Curb 51	27.0 ft	Temporary Structure 103	
acility Carried 7:		Width Out to Out 52:	32.5 ft	Highway System 104:	1
RAMP TO I 25 ML		Deck Area:	10,111. sq. ft	Fed Lands Hiway 105:	0
lias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106	0000
		Min Undrolr Ref 54A:	R	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	27.0 ft	Wearing Surface 108A	6
		Min Lat Clrnce Ref R 55A:	R	Membrane 108B:	2
ocation 9:	328.051174090	Min Lat Undrolr R 55B:	28.0 ft	Deck Protection 108C:	1
25/US 6 INTCHNG IN		Min Lat Undrclr L 56:	0	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
saseHiway Net12:	0	Super 59:	8	Pier Protection 111:	#
rsinvRout 13A	0000000000	Sub 60:	8	NBIS Length 112:	Y
rssubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
atitude 16:	39d 43' 28"	Culvert 62:	N	Scour Watch 113M:	
ongitude 17:	105d 00' 45"	Oprtng Rtg Method 63:	1 LF Load Facto	Future ADT 114:	6,800
Range18A:	68	Operating Rating 64:	60.1	Year of Future ADT 115	2025
ownship18B:	68	Inv Rtng Method 65:	1	CDOT Str Type 120A:	CBGC
Section18C:	4	Inventory Rating 66:	36.0	CDOT Constr Type 120B	4.
Detour Length 19:	2.0 mi	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
oll Facility 20:	3	Str. Evaluation 67:	8	Inspection Trip 122AA	
Custodian 21:	1	Deck Geometry 68:	3	Scheduling Status 122B	
Owner 22:	1	Undrclr Vert/Hor 69:	9	Maintenance Patrol 123	7
unctional Class 26:	11	Posting 70:	5	Expansion Dev/Type124	D
'ear Built 27:		Waterway Adequacy 7	N	Brdg Rail Type/Mod 125A/B	R 0
anes on 28A:	1988	Approach Alignment 72:	8	Posting Trucks 129A/B/C	0 0 0
-	0	Type of Work 75A:	<u></u>		12/15/1998
anes Under 28B: ADT 29:	6,000	Work Done By 75B:		Str Rating Date 130: Special Equip 133:	1
ear of ADT 30:		Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 100.00
	2005	Insp Team Indicator 90B:	BLUE TEAM	Vert Clr N/E 134A/B/C.	X 99.99 0.0
Design Load 31:	6				X 99.99 0.0
pr Rdwy Width 32:	30.0 ft	Inspector Name 90C:	MAESA	Vertical Clr Date:	9/19/1991
Median 33:	0	Frequency 91:	24 months	Weight Limit Color: 139	0
Skew 34:	0.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	1	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic	1

Inspector Name: MAESA

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	10,111	0 %	0	100 %	10,111	0 %	0	0 %	C	0 %	0
104/4	P/S Conc Box Girder	(LF)	1,197	100 %	1,197	0 %	0	0 %	0	0 %	C	0 %	0
210/4	R/Conc Pier Wall	(LF)	68	100 %	68	0 %	0	0 %	0	0 %	C	0 %	0
215/4	R/Conc Abutment	(LF)	40	100 %	40	0 %	0	0 %	0	0 %	C	0 %	0
234/4	R/Conc Cap	(LF)	50	100 %	50	0 %	0	0 %	0	0 %	C	0 %	0
300/4	Strip Seal Exp Joint	(LF)	31	68 %	21	0 %	0	32 %	10	0 %	C	0 %	0
314/4	Pot Bearing	(EA)	6	83 %	5	17 %	1	0 %	0	0 %	C	0 %	0
321/4	R/Conc Approach Slab	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	C	0 %	0
325/1	Slope Prot/Berms	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	C	0 %	0
326/4	Bridge Wingwalls	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	C	0 %	0
331/4	Conc Bridge Railing	(LF)	656	100 %	653	1 %	3	0 %	0	0 %	C	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	C	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	C	0 %	0
342/4	Sign Attachment	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	C	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	3 inches of asphalt. Numerous mod. trans crks and several asph. patches that are inpending potholes. Bottom of top slab, plywood forms left in place inside of CBG"s. See photos. Overhangs look good.
104/4	P/S Conc Box Girder	Interior: Access holes through webs have horiz. cracks 2 to 3 feet long and open 1/32 inches. Cell 2A Web B has horiz. cracks 1 to 3 feet above bottom slab,1/32 inches. End walls at Abut. 1 have hairline horiz. cracks. Exterior looks OK except for efflor. from longit. crack on bottom flange and efflor. from 5 vert. cracks at Pier 3 between the pier walls. Light efflor. staining longit. between Cells 2E and 2F, bottom flange. Bottom flange at right edge in Span 1 has a small patch, there is also efflor. along bott. flange at A1. See photo. Minor scrapes (scratches) on bottom flange in Span 1, worse at mid-span. Timber forms & debris left inside Gir. 1A at P2 from Diaph. and top slab repair. See photos. No signifigant change to any crks listed, 2010 Inspection, entered all cells.
210/4	R/Conc Pier Wall	Pier 2 is monolithic with superstructure. Pier 2 at top, +/- 10 feet from right end, vert. crack open to 1/64 inches. Lots of grafitti.
215/4	R/Conc Abutment	Abut. 1, hairline vert. crack open to 1/64 inches near center of wall. There is no forward abutment.
234/4	R/Conc Cap	Pier 3 only - One hairline vert. crack on Span 2 side. Other vert. to diagonal cracks, Span 2 side, under Bearings C and D.
300/4	Strip Seal Exp Joint	Single gland joint at Abut. 1, open about 2 inches. Full of sand. 25 ft. of gland torn loose from armor and leaks down below. See pics. This is causing a debris and moisture problem for bearing 1B. Joint at Pier 3 is carried on the reports for structures F-16-OL and F-16-NO.
314/4	Pot Bearing	2 at Abut. 1, lots of dirt around 1B from torn joint seal above. 4 at Pier 3 (2 left and 2 right), indic. of movement / working, good.
321/4	R/Conc Approach Slab	Covered with asphalt, but no sign of settlement at this time.

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Elem/Env	Description	Element Notes
325/1	Slope Prot/Berms	Moderate erosion trough right side along A1. See photo.
326/4	Bridge Wingwalls	U-Type at Abut. 1. Right has a light vert. crack with efflor. on top section.
331/4	Conc Bridge Railing	Conc. Jersey barriers, Type R. Light vert cracks in rail, most have light efflor. on backside. Top of right spalled in Span 2 +/- 30 feet from Pier 3, no exposed rebar.
340/4	Superstr Cnc Coating	Minor peeling on rails.
341/4	Substr Conc Coating	Painted over graffiti on Abut. 1.
342/4	Sign Attachment	Directional Sign bridge F-16-RJ for I-25 was cast on to exterior of both left and right jersey barrier bridge rails at Pier 2.

Maintenance Activity Summary

MMS Act	ivity Description	Recommended Status Ta	rget Year	Est Cost
360.02	App SI & S	3/16/2010 -1 2	010 1367	7
Fill in eros	sion hole/ trough along	right side of abutment 1.		

Repair Joint along abutment 1.

Bridge Notes

Scupper at right rear corner completely filled with sand, drain is clogged. Scupper on left side at Pier 3 is partially filled and the top of drain tube is 1/2 way open. Box girder acess in Span 2 at Pier 3, requires snooper on the left side, and a 3/4 inch wrench. Either side in Span 1, is about 12 feet over step slope ground. A-40 setup on Rt side 2010, entered all girder cells.

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Inspection Notes

Time: 8:30	Temp: 47	Weather: Overcast	
Scope: NBI: Ele	ement: Underwater:	Fracture Critical: Other:	Type: Regular NBI
nspection Date:	04/18/2011	Inspector	
		Inspector	